

Listing of the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An apparatus for wirelessly transmitting program information concerning a program to be broadcast, to a plurality of radio communication terminals, comprising:

a program information database in which program information concerning a program to be broadcast is reserved;

retrieving-conditions-storing-means for storing retrieving conditions which are set corresponding to [[a]] the plurality of radio communication terminals;

retrieving means for retrieving a program satisfying the retrieving conditions stored in said retrieving-conditions-storing-means from said program information database; and

transmitting means for voluntarily transmitting, when a program satisfying said retrieving conditions is retrieved by means of said retrieving means, the program information concerning said retrieved program to said radio communication terminals corresponding to said retrieving conditions.

2. (Original) An apparatus for transmitting program information as defined in claim 1, further comprising transmission-conditions-storing-means for storing transmission conditions corresponding to said radio communication terminal, said transmission conditions being used for transmitting the program information retrieved by said retrieving means to said radio communication terminal,

wherein said transmitting means transmits the program information to said radio communication terminal corresponding to said transmission conditions, when the transmission conditions stored in said transmission-conditions-storing-means are satisfied.

3. (Original) An apparatus for transmitting program information as defined in claim 1, wherein said transmitting means transmits the program information retrieved by said retrieving means to said radio communication terminal, when it reaches a time that is a predetermined time before the start of broadcasting of the program.

4. (Original) An apparatus for transmitting program information as defined in any one of the claims 1 to 3, wherein the program information reserved in said program information database includes a basic information including the broadcast date-and-time of the program, channel, and program name information, and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

and wherein said transmitting means voluntarily transmits said basic information of the program retrieved by said retrieving means to said radio communication terminal, and subsequently transmits said detailed information of the program retrieved by said retrieving means when an instruction is provided from said radio communication terminal.

5. (Previously Amended) An apparatus for transmitting program information as defined in any one of claims 1 to 3, said apparatus further comprising:

history-information-obtaining-means for obtaining history information concerning a watching operation, a recording operation or both of these operations of the user, for the program broadcast in the past; and

retrieving-conditions-writing-means for setting, based on the history information obtained by said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

6. (Original) A communicating system comprising a plurality of radio communication terminals for performing [[a]] radio communication; a program-information-transmitting-apparatus for transmitting information concerning a program to be broadcast to said radio communication terminals; a program recording apparatus for recording a program to be broadcast; and a communication network connecting the apparatuses with one another,

wherein said program-information-transmitting-apparatus has a program information database in which program information concerning a program to be broadcast is reserved; retrieving-conditions-storing-means for storing retrieving conditions which are set corresponding to said plurality of radio communication terminals; retrieving means for retrieving a program satisfying the retrieving conditions stored in said retrieving-conditions-storing-means from said program information database; and transmitting means for voluntarily transmitting,

when a program satisfying the retrieving conditions is retrieved by means of said retrieving means, a program information concerning the retrieved program to said radio communication terminals corresponding to said retrieving conditions;

 said radio communication terminals [[has]] have program-information-storing-means for storing a program information transmitted from said program-information-transmitting-apparatus; displaying means for displaying a program information stored in said program-information-storing-means; and recording-instruction-transmitting-means for transmitting recording-instruction-information instructing a program recording operation to said program recording apparatus via said communication network; and

 said program recording apparatus has instruction-information-receiving-means for receiving said recording-instruction-information transmitted via said communication network and recording-operation-executing-means for recording a program to be broadcast in accordance with the recording-instruction-information received by said instruction-information-receiving-means.

7. (Currently Amended) A communicating system comprising a plurality of radio communication terminals for performing [[a]] radio communication; a program-information-transmitting-apparatus for transmitting information concerning a program to be broadcast to said radio communication terminals; a program-providing-apparatus for providing a program to the user when a registered user purchases the program; and a communication network connecting the apparatuses with one another,

 wherein said program-information-transmitting-apparatus has a program information database in which program information concerning a program to be broadcast is reserved; retrieving-conditions-storing-means for storing retrieving conditions which are set corresponding to said plurality of radio communication terminals; retrieving means for retrieving a program satisfying the retrieving conditions stored in said retrieving-conditions-storing-means from said program information database; and transmitting means for voluntarily transmitting, when a program satisfying said retrieving conditions is retrieved by means of said retrieving means, the program information concerning the retrieved program to said radio communication terminals corresponding to said retrieving conditions;

 said radio communication terminals [[has]] have program-information-storing-means for storing a program information transmitted from said program-information-

transmitting-apparatus; displaying means for displaying a program information stored in said program information storing means; and purchasing-instruction-transmitting-means for transmitting purchasing-instruction-information instructing a program purchasing operation to said program-providing-apparatus via said communication network; and

 said program-providing-apparatus has purchasing-information-receiving-means for receiving a purchasing-instruction-information transmitted via said communication network and program-providing-means for providing a program to the user in accordance with the purchasing-instruction-information received by said purchasing-information-receiving means.

8. (Original) A communicating system as defined in claim 6 or 7, wherein said program-information-transmitting-apparatus further comprises transmission-conditions-storing means for storing transmission conditions corresponding to said radio terminal, said transmission conditions being used for transmitting the program information retrieved by said retrieving means to said radio communication terminal;

 wherein said transmitting means transmits the program information to said radio communication terminal corresponding to said transmission conditions, when the transmission conditions stored in said transmission-conditions-storing-means are satisfied.

9. (Original) A communicating system as defined in claim 6 or 7, wherein said transmitting means transmits the program information retrieved by said retrieving means to said radio communication terminal, when it reaches a time that is a predetermined time before the start of broadcasting of the program.

10. (Previously Amended) A communicating system as defined in claim 6 or 7, wherein the program information reserved in said program information database includes a basic information including the broadcast date-and-time of the program, channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

 said transmitting means voluntarily transmits said basic information of the program retrieved by said retrieving means to said radio communication terminal, and subsequently transmits said detailed information of the program retrieved by said retrieving means when an instruction is provided from said radio communication terminal.

11. (Previously Amended) A communicating system as defined in claims 6 or 7, said system further comprising history-information-obtaining-means connectable to said communication network, for obtaining history information concerning a watching operation, a recording operation or both of these operations, of the user, for the program broadcast in the past, so as to transmit the history information to said program-information-transmitting apparatus;

wherein said program-information-transmitting-apparatus has retrieving-conditions-writing-means for setting, based on the history information transmitted from said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

12. (Currently Amended) A method of wirelessly transmitting a program information concerning a program to be broadcast to a plurality of radio communication terminals, said method comprising the steps of :

a retrieving step of retrieving a program satisfying retrieving conditions which are set corresponding to the radio communication terminals, from a program information database in which program information concerning a program to be broadcast is reserved; and

a transmitting step of, when a program satisfying said retrieving conditions is retrieved in said retrieving step, voluntarily transmitting a program information concerning the retrieved program to said radio communication terminal corresponding to said retrieving conditions.

13. (Original) A method of transmitting program information as defined in claim 12, wherein, in said transmitting step, when the transmission conditions which are set corresponding to said radio terminal are satisfied, the program information retrieved in said retrieving step is transmitted to said radio communication terminal corresponding to said transmission conditions.

14. (Original) A method of transmitting program information as defined in claim 12, wherein, in said transmitting step, the program information retrieved in said retrieving step is transmitted to said radio communication terminal, when it reaches a time that is a predetermined time before the start of broadcasting of the program.

15. (Original) A method of transmitting program information as defined in any one of claims 12 to 14, wherein said program information reserved in said program information database includes a basic information including the broadcast date-and-time of the program, channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

and wherein, in said transmitting step, said basic information of the program retrieved in said retrieving step is voluntarily transmitted to said radio communication terminal, and said detailed information of the program retrieved in said retrieving step is sequentially transmitted to said radio communication terminal when an instruction is provided from said radio communication terminal.

16. (Original) A program-recording-instruction-method of instructing a recording operation of a program from a radio communication terminal to a program-recording-apparatus for recording a program to be broadcast, comprising the steps of :

a program-retrieving-step of retrieving a program which satisfies retrieving conditions preset by a user of said radio communication terminal, from a database in which program information concerning a program to be broadcast is reserved;

a program-information-transmitting-step, in which, when a program satisfying said retrieving conditions is retrieved, a program information concerning the retrieved program is obtained from said database, so that the program information is voluntarily transmitted to said radio communication terminal;

a program-information-displaying- step of receiving the transmitted program information at said radio terminal and displaying the received program information, so as to prompt the user to instruct the recording operation of the program;

and

a recording-instruction-transmitting-step, in which, when the recording operation of the program is instructed, recording-instruction-information is transmitted from said radio communication terminal to said program-recording-apparatus.

17. (Previously Amended) A method of instructing a program recording operation as defined in claim 16, wherein, in said program-information-transmitting-step, when the

transmission conditions which are set corresponding to the user of said radio terminal are satisfied, the program information retrieved in said retrieving step is transmitted.

18. (Previously Amended) A method of instructing a program recording operation defined in claim 16 or 17, wherein the program information reserved in said database includes a basic information including the broadcast date-and-time of the program, channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

and wherein, in said program-information-transmitting-step, said basic information of the program retrieved in said program retrieving step is voluntarily transmitted to said radio communication terminal, and said detailed information of the program retrieved in said retrieving step is sequentially transmitted to said radio communication terminal when an instruction is provided from said radio communication terminal.

19. (Original) A program-recording-instruction-method of instructing a purchasing operation of a program from a radio communication terminal to a program-providing-apparatus, said program-providing-apparatus providing a registered user with a program instructed from the user to purchase it, comprising the steps of :

a program-retrieving-step of retrieving a program satisfying the retrieving conditions which are set corresponding to a user of said radio communication terminal from a database in which program information concerning a program to be broadcast is reserved;

a program-information-transmitting-step, in which, when a program satisfying said retrieving conditions is retrieved, a program information concerning the retrieved program is obtained from said database, so that the program information is voluntarily transmitted to said radio communication terminal;

a program-information-displaying-step of receiving the transmitted program information at said radio terminal and displaying the received program information, so as to prompt the user to instruct the purchasing operation of the program;
and

a purchasing-instruction-transmitting-step, in which, when the purchasing operation of the program is instructed, the purchasing-instruction-information is transmitted from said radio communication terminal to said program-providing-apparatus.

20. (Original) A method of instructing a program purchasing operation as defined in claim 19, wherein, in said program-information-transmitting-step, when the transmission conditions which are set corresponding to the user of said radio terminal are satisfied, the program information retrieved in said retrieving step is transmitted.

21. (Original) A method of instructing a program purchasing operation as defined in claim 19 or 20, wherein the program information reserved in said database includes a basic information including the broadcast date-and-time of the program channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

and wherein, in said program-information-transmitting-step, said basic information of the program retrieved in said retrieving step is voluntarily transmitted to said radio communication terminal, and said detailed information of the program retrieved in said program-retrieving-step is sequentially transmitted to said radio communication terminal when an instruction is provided from said radio communication terminal.

22. (Previously presented) An apparatus for transmitting program information as defined in claim 4, said apparatus further comprising:

history-information-obtaining-means for obtaining history information concerning a watching operation, a recording operation or both of these operations of the user, for the program broadcast in the past; and

retrieving-conditions-writing-means for setting, based on the history information obtained by said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

23. (Previously presented) A communicating system as defined in claim 8, wherein the program information reserved in said program information database includes a basic information including the broadcast date-and-time of the program, channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

said transmitting means voluntarily transmits said basic information of the program retrieved by said retrieving means to said radio communication terminal, and subsequently transmits said detailed information of the program retrieved by said retrieving means when an instruction is provided from said radio communication terminal.

24. (Previously presented) A communicating system as defined in claim 9, wherein the program information reserved in said program information database includes a basic information including the broadcast date-and-time of the program, channel, and program name information and a detailed information concerning the contents of the program, the amount of said detailed information being larger than that of said basic information;

said transmitting means voluntarily transmits said basic information of the program retrieved by said retrieving means to said radio communication terminal, and subsequently transmits said detailed information of the program retrieved by said retrieving means when an instruction is provided from said radio communication terminal.

25. (Previously presented) A communicating system as defined in claim 8, said system further comprising history-information-obtaining-means connectable to said communication network, for obtaining history information concerning a watching operation, a recording operation or both of these operations, of the user, for the program broadcast in the past, so as to transmit the history information to said program-information-transmitting-apparatus;

wherein said program-information-transmitting-apparatus has retrieving-conditions-writing-means for setting, based on the history information transmitted from said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

26. (Previously presented) A communicating system as defined in claim 9, said system further comprising history-information-obtaining-means connectable to said communication network, for obtaining history information concerning a watching operation, a recording operation or both of these operations, of the user, for the program broadcast in the past, so as to transmit the history information to said program-information-transmitting-apparatus;

wherein said program-information-transmitting-apparatus has retrieving-conditions-writing-means for setting, based on the history information transmitted from said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

27. (Previously presented) A communicating system as defined in claim 10, said system further comprising history-information-obtaining-means connectable to said communication network, for obtaining history information concerning a watching operation, a recording operation or both of these operations, of the user, for the program broadcast in the past, so as to transmit the history information to said program-information-transmitting-apparatus;

wherein said program-information-transmitting-apparatus has retrieving-conditions-writing-means for setting, based on the history information transmitted from said history-information-obtaining-means, the retrieving conditions corresponding to said radio communication terminal of said user, so as to write the retrieving conditions into said retrieving-conditions-storing-means.

28. (New) An apparatus for transmitting program information as defined in claim 1, wherein the retrieving conditions comprises personal information of users of the communication terminals.

29. (New) An apparatus for transmitting program information as defined in claim 28, wherein the personal information is registered by the users of the communication terminals.

30. (New) An apparatus for transmitting program information as defined in claim 29, wherein the personal information is capable of being modified.

31. (New) An apparatus for transmitting program information as defined in claim 1, wherein at least a part of the retrieving conditions are different for at least two of the communication terminals.

32. (New) An apparatus for wirelessly transmitting program information concerning a program to be broadcast, to a plurality of radio communication terminals, comprising:

 a first memory comprising program information concerning a program to be broadcast;

 a second memory comprising retrieving conditions which are set corresponding to the plurality of radio communication terminals;

 a server which is adapted to access the first memory and the second memory, the server retrieving a program satisfying the retrieving conditions stored in the second memory from the program information stored in the first memory; and

 transmitter for transmitting the program information concerning said retrieved program to said radio communication terminals corresponding to said retrieving conditions.